

wherein the designating device designates a
5 search pattern of which the relation of the
sequence of the plurality of events is described at
arbitrary intervals.

a generating device collecting a set of records that contain a first attribute and a set of records that contain a second attribute and generating a set of records that contain both the first attribute and the second attribute,

5. The searching apparatus as set forth in
20 claim 1, further comprising

wherein the searching device searches the
25 compressed set of data.

6. The searching apparatus as set forth in claim 1, further comprising

5 a deleting device deleting unnecessary records from the set of records according to the search pattern,

wherein the searching device searches rest of the set of records.

10 7. The searching apparatus as set forth in claim 1, further comprising

a rewriting device rewriting attribute values of an attribute of the plurality of attributes that have a hierarchical structure,

15 wherein the searching device searches a set of records that have been rewritten.

8. The searching apparatus as set forth in claim 1,

20 wherein the designating device designates as a pattern matching method for matching the search pattern and the combination of records, one of a longest match for returning a combination of events whose interval is the longest in combinations of
25 events that match the search pattern, a shortest

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5 11. The searching apparatus as set forth in
claim 1,

wherein the outputting device compiles
10 information about the combination of records
corresponding to the search pattern in the
designated format and outputs the result..

wherein the outputting device performs an aggregate operation for the combination of records corresponding to the search pattern and outputs an operation result.

13. The searching apparatus as set forth in claim 1,
wherein the designating device designates an attribute used for sorting records, and

25 wherein the searching device sorts the set of

records by values of the designated attribute and searches a set of records that have been sorted.

14. The searching apparatus as set forth in
5 claim 13,

wherein the designating device designates an attribute used for grouping records, and

wherein the searching device groups the set of records by values of the designated attribute and
10 sorts records of each group.

15. The searching apparatus as set forth in claim 1, further comprising

an indexing device used for accessing the set
15 of records according to the order of the attribute values.

16. The searching apparatus as set forth in claim 15, further comprising

20 a group information storing device used for accessing the set of records for each group according to values of a predetermined attribute.

17. A computer-readable recording medium on
25 which a program is stored, the program causing a

computer for searching a set of records for a combination of records, each of the records being composed of a plurality of attributes, to perform:

designating a search pattern using a plurality
5 of events and relation of a sequence of the plurality of events, each of the events defining a particular attribute of a record as a particular value, the relation of the sequence of the events being defined according to an order of attribute
10 values;

searching the set of records for a combination of records corresponding to the designated search pattern; and

outputting a searched result.

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18. A propagation signal for propagating a program causing a computer for searching a set of records for a combination of records, each of the records being composed of a plurality of attributes,

20 to perform:

designating a search pattern using a plurality of events and relation of a sequence of the plurality of events, each of the events defining a particular attribute of a record as a particular
25 value, the relation of the sequence of the events

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attributes, the searching apparatus comprising:

designating means for designating a search pattern using a plurality of events and relation of a sequence of the plurality of events, each of the events defining a particular attribute of a record as a particular value, the relation of the sequence of the events being defined according to an order of attribute values;

searching means for searching the set of records for a combination of records corresponding to the designated search pattern; and

outputting means for outputting a searched result.